

539,309

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
8 July 2004 (08.07.2004)

PCT

(10) International Publication Number  
**WO 2004/057189 A1**

(51) International Patent Classification<sup>7</sup>: **F04B 39/12,**  
39/00

LEE, Sang-Wook [KR/KR]; Jugong Apt. 1218-308, Haan  
3-Dong, 423-758 Gwangmyeong, Gyeonggi-Do (KR).

(21) International Application Number:  
PCT/KR2002/002403

(74) Agent: **PARK, Jang-Won**; Jewoo Bldg. 5th Floor, 200,  
Nonhyun-Dong, Gangnam-Ku, 135-010 Seoul (KR).

(22) International Filing Date:  
20 December 2002 (20.12.2002)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,  
SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,  
VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (*for all designated States except US*): **LG  
ELECTRONICS INC.** [KR/KR]; 20, Yoido-Dong, Yong-  
dungpo-Gu, 150-010 Seoul (KR).

(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK,  
TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

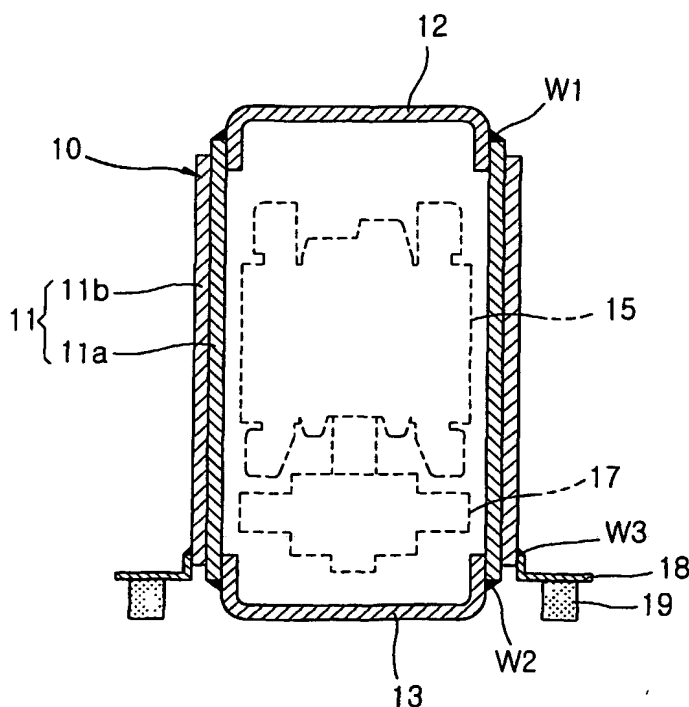
(75) Inventors/Applicants (*for US only*): **HA, Jong-Hun**  
[KR/KR]; Daedong Apt. 113-906, Sangnam-Dong,  
641-777 Changwon, Gyeongsangnam-Do (KR). **HA,**  
**Samchul** [KR/KR]; Sapa Dongsung Apt.102-1201,  
Sapa-Dong, 641-775 Changwon, Gyeongsangnam-Do  
(KR). **LEE, Won-Hack** [KR/KR]; Gyeryong Apt.  
844-801, Suri-Dong, 435-751 Gunpo, Gyeonggi-Do (KR).

Published:

— with international search report

[Continued on next page]

(54) Title: CHAMBER FOR COMPRESSOR AND COMPRESSOR USING THE SAME



(57) Abstract: A chamber (10) for a compressor is disclosed in which at least one portion has a multi-layer structure (11) and plates having the multi-layer structure are tightly attached to thereby reduce noise and vibration by virtue of mutual frictional force. Vibration energy is transformed to thermal energy according to friction and transmitted externally through the chamber (10) during the operation of the compressor. Thus, noise and vibration generated during the operation of the compressor can be considerably reduced.

WO 2004/057189 A1



---

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*